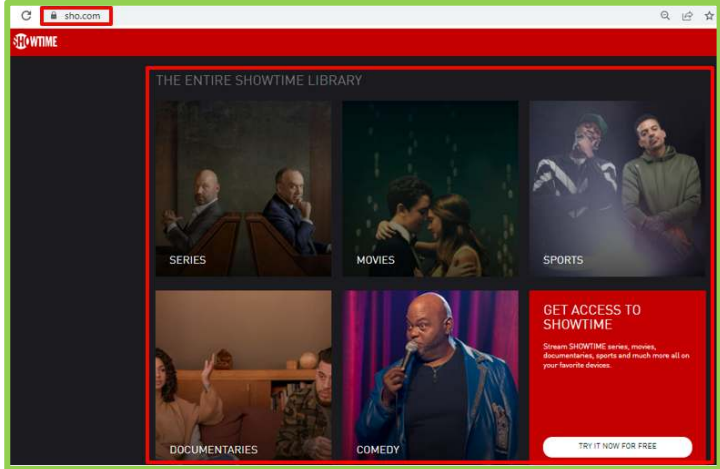

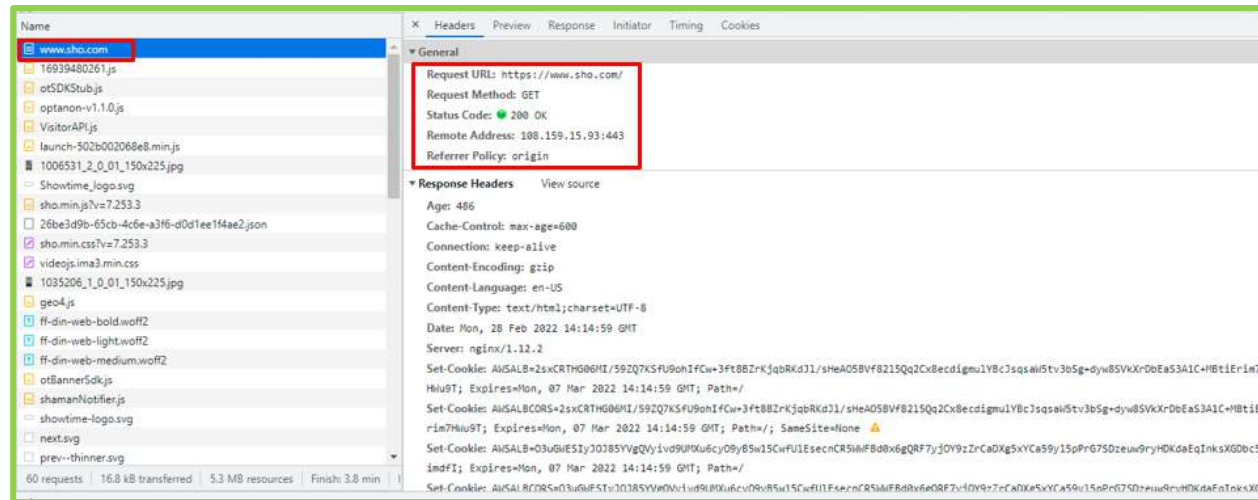


Infringement Claim Chart for U.S. Pat. No. 7,650,376 v. Showtime Networks Inc., ("Defendant")

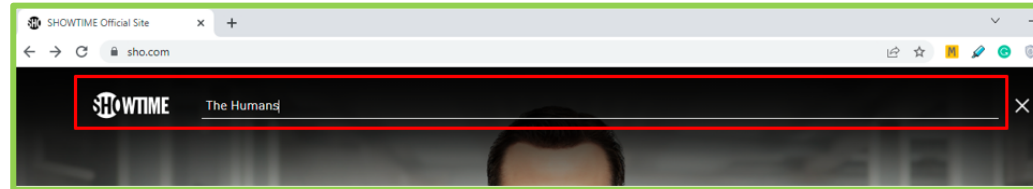
Claim 37	Evidence
<p>37. A computer readable storage medium or media encoded with one or more computer programs including instructions for effecting the provision of content over a network, comprising:</p>	<p>Defendant (Showtime Networks Inc) provides an app i.e., the media encoded with a computer program (Showtime app) and includes instructions for effecting the provision of content (i.e., movies, series, sports, comedy, etc.) over a network (i.e., internet).</p>  <p>Source: https://www.sho.com/</p>  <p>Source: https://www.sho.com/showtime-anytime</p>



Source: Actual usage of Chrome DevTools to show a computer-readable storage medium (e.g., server) including instructions for effecting the provision of content (i.e., movies, series, sports, comedy, etc.) over a network (i.e., internet).

a) instructions for receiving a request from a client for specified content;

As shown below, the Showtime app provides a user interface (presented through instructions within the app) that presents an interface to receive an input request from a user for specified content like movies, series, sports, comedy, etc.



Source: <https://www.sho.com/super-pumped>



Source: Actual usage of Chrome DevTools to show instructions for the Showtime global navigation menu or search bar to receive an input request from a user for specified content like movies, series, sports, comedy, etc.

No.	Time	Source	Destination	Protocol	Length	Info
526	7.739944	142.250.206.164	192.168.0.102	QUIC	68	Protected Payload (KP0)
527	7.755430	192.168.0.102	142.250.206.164	QUIC	614	Protected Payload (KP0), DCID=c43b294c176c6070
528	7.757383	142.250.193.1	192.168.0.102	QUIC	67	Protected Payload (KP0)
529	7.761083	192.168.0.102	192.168.0.1	DNS	71	Standard query 0x3a48 A www.sho.com
530	7.779006	142.250.206.164	192.168.0.102	QUIC	71	Protected Payload (KP0)
531	7.791775	192.168.0.102	142.250.206.164	QUIC	75	Protected Payload (KP0), DCID=c43b294c176c6070
532	7.797816	216.58.200.206	192.168.0.102	QUIC	827	Protected Payload (KP0)
533	7.798096	192.168.0.102	216.58.200.206	QUIC	77	Protected Payload (KP0), DCID=511242807df96d2a
534	7.801153	142.250.206.164	192.168.0.102	QUIC	71	Protected Payload (KP0)
535	7.801588	216.58.200.206	192.168.0.102	QUIC	127	Protected Payload (KP0)
536	7.809479	192.168.0.1	192.168.0.102	DNS	178	Standard query response 0x3a48 A www.sho.com CNAME d3u4t8ed9uim4u.cloudfront.net A 108.159.15.93 A
537	7.810292	192.168.0.102	108.159.15.93	TCP	66	49978 → 443 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
538	7.813758	192.168.0.102	142.250.206.164	QUIC	75	Protected Payload (KP0), DCID=c43b294c176c6070
539	7.827785	192.168.0.102	216.58.200.206	QUIC	75	Protected Payload (KP0), DCID=511242807df96d2a
540	7.852808	142.250.206.164	192.168.0.102	QUIC	68	Protected Payload (KP0)
541	7.853019	192.168.0.102	142.250.206.164	QUIC	76	Protected Payload (KP0), DCID=c43b294c176c6070
542	7.854114	142.250.206.164	192.168.0.102	QUIC	78	Protected Payload (KP0)
543	7.854305	192.168.0.102	142.250.206.164	QUIC	79	Protected Payload (KP0), DCID=c43b294c176c6070
544	7.863261	108.159.15.93	192.168.0.102	TCP	66	443 → 49978 [SYN, ACK] Seq=0 Ack=1 Win=65535 Len=0 MSS=1440 SACK_PERM=1 WS=256
545	7.863342	192.168.0.102	108.159.15.93	TCP	54	49978 → 443 [ACK] Seq=1 Ack=1 Win=132352 Len=0
546	7.863660	192.168.0.102	108.159.15.93	TLSv1.3	571	Client Hello
547	7.869801	216.58.200.206	192.168.0.102	QUIC	67	Protected Payload (KP0)
548	7.880736	142.250.206.164	192.168.0.102	QUIC	68	Protected Payload (KP0)
549	7.880897	192.168.0.102	142.250.206.164	QUIC	76	Protected Payload (KP0), DCID=c43b294c176c6070
550	7.882129	142.250.206.164	192.168.0.102	QUIC	78	Protected Payload (KP0)
551	7.882309	192.168.0.102	142.250.206.164	QUIC	79	Protected Payload (KP0), DCID=c43b294c176c6070
552	7.909464	142.250.206.164	192.168.0.102	QUIC	68	Protected Payload (KP0)
553	7.916661	108.159.15.93	192.168.0.102	TCP	54	443 → 49978 [ACK] Seq=1 Ack=518 Win=66816 Len=0
554	7.917520	108.159.15.93	192.168.0.102	TLSv1.3	1494	Server Hello, Change Cipher Spec, Application Data
555	7.917520	108.159.15.93	192.168.0.102	TCP	1494	443 → 49978 [PSH, ACK] Seq=1441 Ack=518 Win=66816 Len=1440 [TCP segment of a reassembled PDU]

```

Connection-specific DNS Suffix . :
Link-local IPv6 Address . . . . . : fe80::a437:640a:ebc8:5bcc%1
IPv4 Address. . . . . : 192.168.0.102
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . : 192.168.0.1

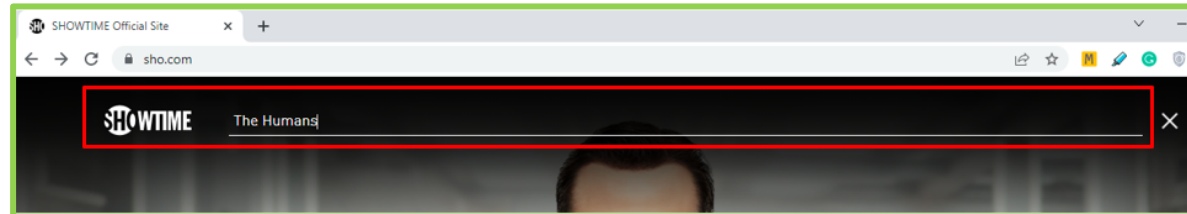
```

Source: Actual usage of Wireshark (an open-source packet analyzer) shows the movement of packets between the core server (IP Address 108.159.15.93) and a client device (e.g., Analyst device - IP Address 192.168.0.102).

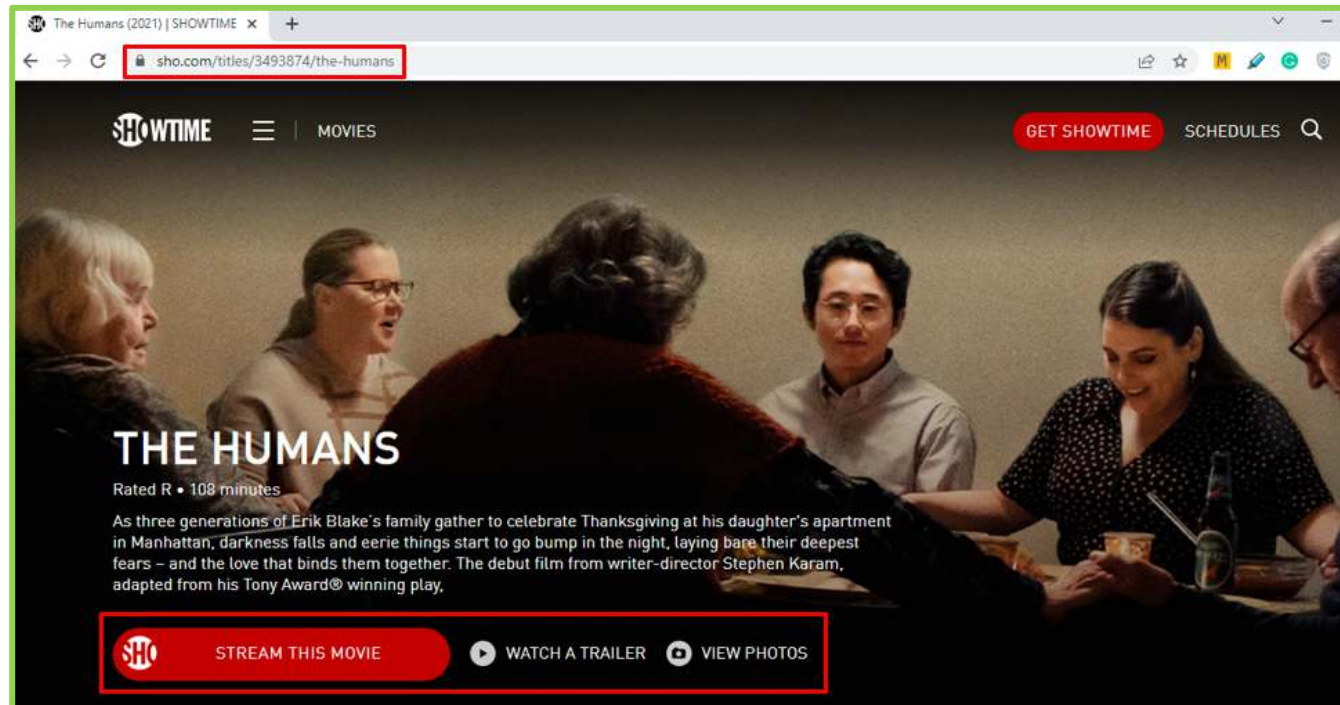
For example, when the Analyst (i.e., client) search for Showtime, then a packet transmits from the analyst device to the core server and in return, a packet is received which leads to open the Showtime website on the analyst's device where the analyst can request for specified content provided by different providers (as it can be clearly seen in the above snapshots for the packets movement).

b) instructions for communicating to the client the identity of a node server having the specified content stored thereon,

As shown below, when a user searches for any content (e.g., movies, series, sports, comedy, etc.) in the search bar of the Showtime application/web page, the instructions stored on the main server communicate the identity of the various serving nodes (i.e., various channels or media content providers, etc.) to the client device.



Source: <https://www.sho.com/super-pumped>



Source: <https://www.sho.com/titles/3493874/the-humans>

Name

- the-humans-trailer
- 16939480261.js
- otSDKStub.js
- VisitorAPI.js
- optanon-v1.1.0.js
- launch-502b002068e8.min.js
- 1006531_2_0_01_150x225.jpg
- 0_0_3493874_tr101_1280x640.jpg
- sho.min.js?v=7.253.3
- 26be3d9b-65cb-4c6e-a3f6-d0d1ee1f4ae2.json
- sho.min.css?v=7.253.3
- videojs.ima3.min.css
- 1035206_1_0_01_150x225.jpg
- index.min.js
- ff-din-web-bold.woff2
- ff-din-web-light.woff2
- ff-din-web-medium.woff2
- geo4.js
- otBannerSdk.js
- shamanNotifier.js
- showtime-logo.svg
- play.svg

125 requests | 25.7 kB transferred | 32.6 MB resources | Finish: 1.3 min

General

Request URL: https://www.sho.com/video/76633/the-humans-trailer
 Request Method: GET
 Status Code: 200 OK
 Remote Address: 108.159.15.93:443
 Referrer Policy: strict-origin-when-cross-origin

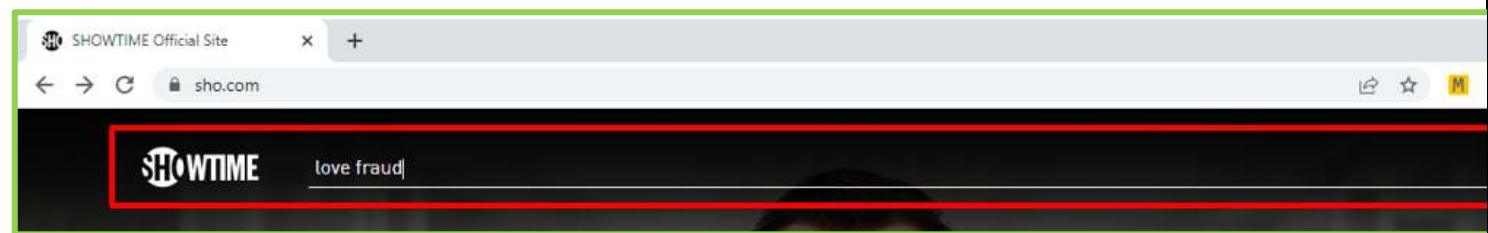
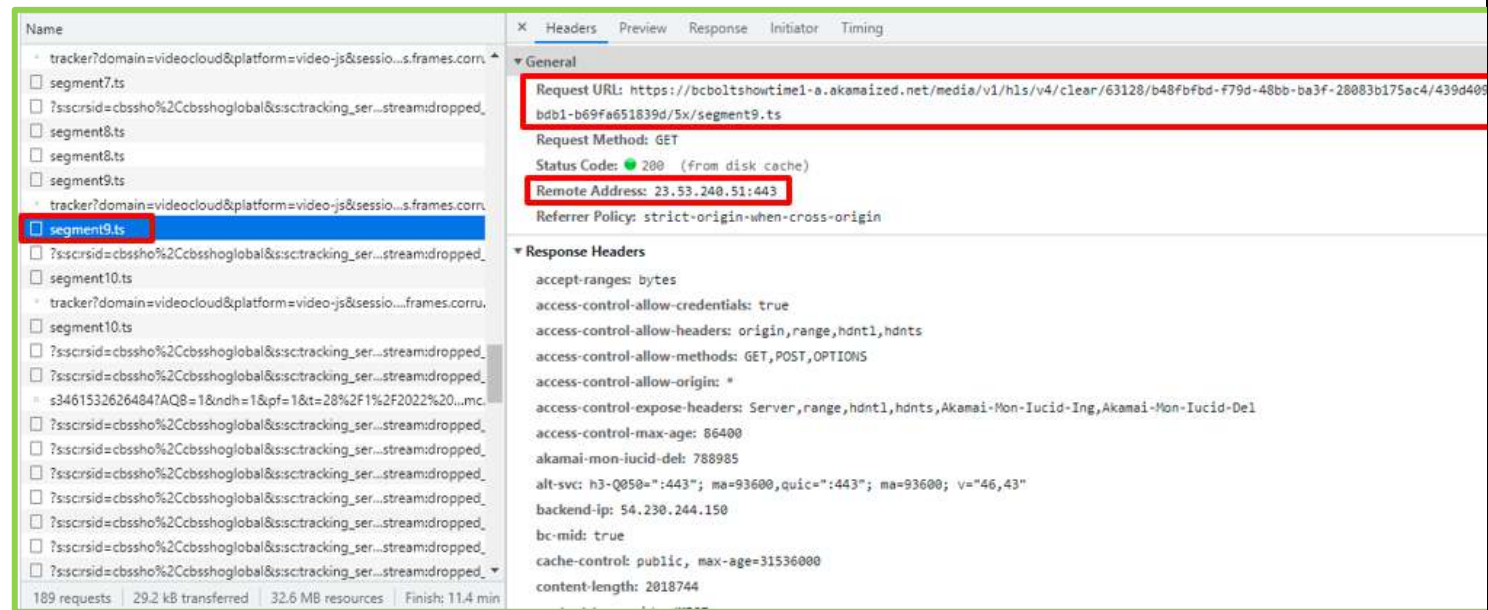
Response Headers View source

Age: 63
 Connection: keep-alive
 Content-Encoding: gzip
 Content-Language: en-US
 Content-Type: text/html; charset=UTF-8
 Date: Mon, 28 Feb 2022 15:07:16 GMT
 Server: nginx/1.12.2
 Set-Cookie: AhsALB=PKzCkXzGPJ+Z/u3PwMes8DwvwpNLw01VDymb5cRd2CdK1lP691THPxFfQ3ZpHG9SHzQ9guZ8VuvXEo+QVcrCg7Ds5aG0ZKep8ye/umG2A+rhuhgoc2IyX
 HgjqT; Expires=Mon, 07 Mar 2022 15:07:16 GMT; Path=/
 Set-Cookie: AhsALBCORS=PKzCkXzGPJ+Z/u3PwMes8DwvwpNLw01VDymb5cRd2CdK1lP691THPxFfQ3ZpHG9SHzQ9guZ8VuvXEo+QVcrCg7Ds5aG0ZKep8ye/umG2A+rhuhgoc
 2IyXhgjqT; Expires=Mon, 07 Mar 2022 15:07:16 GMT; Path=/; SameSite=None
 Set-Cookie: AhsALB=609BWH8UUuaBIIAyq90x5f4JL8cydBP4uYudZOPvXIKF01g7a2KnM4zi9dfPu3jCL/9UZu+hjn0mIo3Nt/Bh5YKF3kLRWeDcLnTb9X5zNqfRTH8DgOyVl
 UmQSa; Expires=Mon, 07 Mar 2022 15:07:16 GMT; Path=/
 Set-Cookie: AhsALBCORS=609BWH8UUuaBIIAyq90x5f4JL8cydBP4uYudZOPvXIKF01g7a2KnM4zi9dfPu3jCL/9UZu+hjn0mIo3Nt/Bh5YKF3kLRWeDcLnTb9X5zNqfRTH8Dg
 OYViUmQSa; Expires=Mon, 07 Mar 2022 15:07:16 GMT; Path=/; SameSite=None

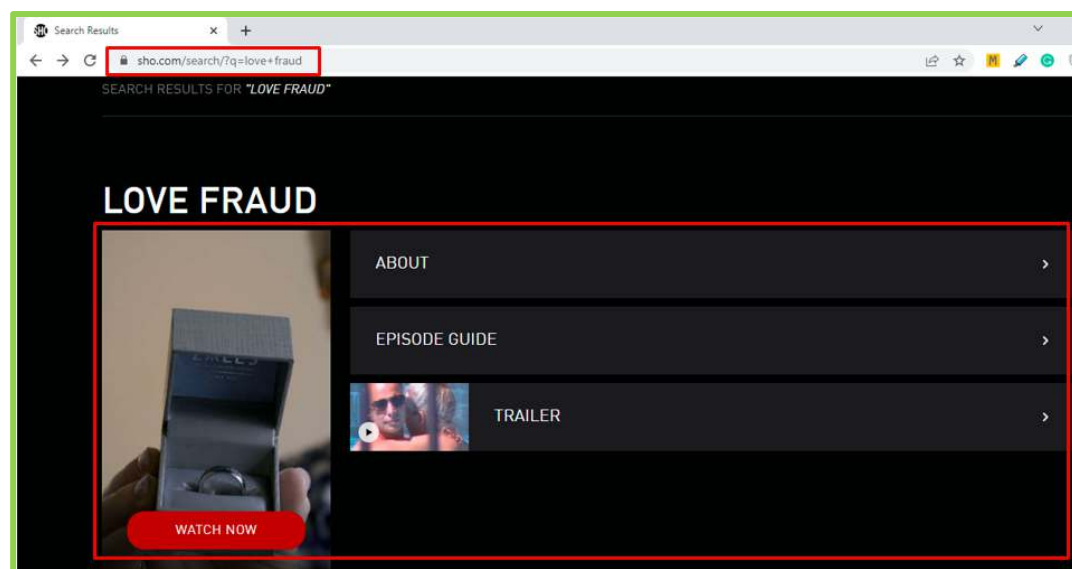
```

<meta property="og:image:width" content="1280">
<meta property="og:image:height" content="640">
<meta name="msvalidate.01" content="E7A9EF79C2B634AA3CA5341552C58405">
<link rel="canonical" href="https://www.sho.com/video/76633/the-humans-trailer" == 50
<meta property="og:url" content="https://www.sho.com/video/76633/the-humans-trailer">
<title> The Humans Trailer | SHOWTIME</title>
<meta property="og:title" content="The Humans Trailer | SHOWTIME">
<meta name="description" content="As three generations of Erik Blake's family gather to celebrate Thanksgiving at his daughter's apartment in Manhattan, darkness falls and eerie things start to go bump in the night, laying bare their deepest fears - and the love that binds them together. Now streaming on SHOWTIME.">
<meta name="show:video_duration" content="0:00">
<meta property="og:description" content="As three generations of Erik Blake's family gather to celebrate Thanksgiving at his daughter's apartment in Manhattan, darkness falls and eerie things start to go bump in the night, laying bare their deepest fears - and the love that binds them together. Now streaming on SHOWTIME.">
<meta name="page-tracking" content="show:video:The Humans Trailer">
<meta property="og:image" content="https://www.sho.com/site/image-bin/images/0_0_3493874/0_0_3493874_tr101_1280x640.jpg">
<meta name="show:image" content="https://www.sho.com/site/image-bin/images/0_0_3493874/0_0_3493874_tr101_640x320.jpg">
<script src="https://cdn.optimizely.com/js/16939480261.js"></script>
<style type="text/css"></style>
<!-- BEGIN onetrust/optanon for all environments [isLiveServer=true]-->
<script src="https://cdn.cookiecutter.org/scripts/otSDKStub.js" data-domain-script="26be3d9b-65cb-4c6e-a3f6-d0d1ee1f4ae2" type="text/javascript" charset="UTF-8"></script>
<script type="text/javascript"></script>
<script src="//production-cms.isenriyacy.cbsi.com/dist/optanon-v1.1.0.js" type="text/javascript" async></script>
<!-- END onetrust/optanon -->
<script src="//www.sho.com/lib/omiture/VisitorAPI.js"></script>
<link rel="shortcut icon" href="https://www.sho.com/assets/images/favicon/favicon.ico">
<link rel="stylesheet" href="//www.sho.com/stylesheets/sho.min.css?v=7.253.3">
<link href="//players.brightcove.net/videojs-ima3/2/videojs.ima3.min.css" rel="stylesheet">
<script> var omniture_rsid = "cbssho,cbsshoglobal"; </script>
<script src="https://cdn.cookiecutter.org/scripts/otSDKStub.js/6.23.0/otBannerSdk.js" async type="text/javascript"></script>
<script src="//production-cms.isenriyacy.cbsi.com/cps/shamanNotifier.js" async></script>
<script src="//assets.adobedtm.com/b5d94cfc1912/eed19d587c79/launch-502b002068e8.min.js" async></script>
<!-- BEGIN sho overrides to onetrust's privacy policy overlay -->
<style type="text/css"></style>
<!-- END sho overrides -->

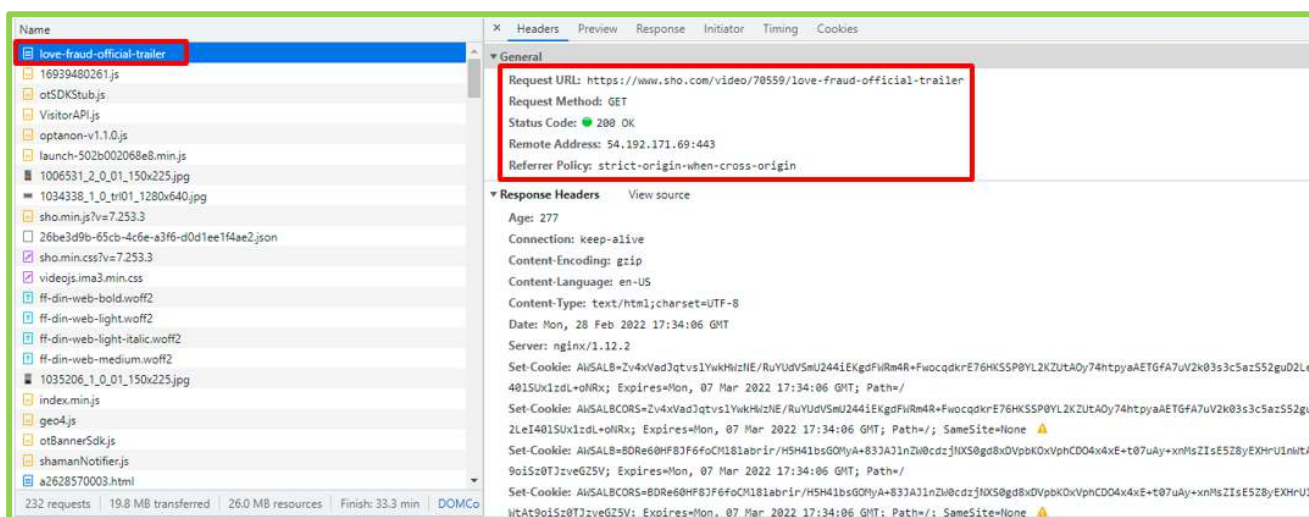
```



Source: <https://www.sho.com/super-pumped>



Source: <https://www.sho.com/search/?q=love+fraud>




```

<div class="video-metadata_inner">
  <h1 class="video-metadata_details_title">Love Fraud Official Trailer</h1> <!-- $0
  <p class="video-metadata_details_desc">
    <a class="video-metadata_details_link" href="/love-fraud/season/1/episode/1/vou-just-gotta-trust-me" data-track data-context="video details" data-label="title link">
      Love Fraud, Season 1</a>
    "The four-part docu-series follows the search for one man, Richard Scott Smith, who over the past 20 years used the internet and his dubious charms to prey upon
    unsuspecting women in search of love – conning them out of their money and dignity. Ewing and Grady capture the story as it unravels in real time as his victims band
    together to seek sweet revenge by turning to a bounty hunter when they feel the justice system has failed them. Love Fraud premieres on Showtime on August 30. "
    </p>
  </div>
</div>
<div class="order-promo"></div> </div>
<section class="order-banner section-inner js-sticky-banner" data-context="banner"></section>
</section>
</div>
<div class="video-player_secondary">
  <h3 class="video-player_secondary_header">Related Videos</h3>
  <div class="promo-group promo-group--related-videos" data-context="promo group:Related Videos">
    <figure class="promo promo--video"></figure>
    <figure class="promo promo--video"></figure>
    <figure class="promo promo--video"></figure>
    <figure class="promo promo--video"></figure>
    <div class="promo_image lazyloaded" data-bgsset="https://www.sho.com/site/image-bin/images/1034338_1_0/1034338_1_0_pro04_640x320.jpg" style="background-image: url('https://www.sho.com/site/image-bin/images/1034338_1_0/1034338_1_0_pro04_640x320.jpg');"></div>
    <figcaption class="promo_body">
      <div class="promo_headline">Love Fraud is a "Must See!"</div>
      <a class="promo_link" href="/video/72597/love-fraud-is-a-must-see" data-track data-label="video:Love Fraud is a "Must See!" data-location="tile 4"></a>
    </figcaption>
    <figure class="promo promo--video">
      <div class="promo_image lazyloaded" data-bgsset="https://www.sho.com/site/image-bin/images/1034338_1_0/1034338_1_0_pro03_640x320.jpg" style="background-image: url('https://www.sho.com/site/image-bin/images/1034338_1_0/1034338_1_0_pro03_640x320.jpg');"></div>
      <figcaption class="promo_body">
        <div class="promo_headline">Love Fraud is a "Must See!"</div>
        <a class="promo_link" href="/video/72597/love-fraud-is-a-must-see" data-track data-label="video:Love Fraud is a "Must See!" data-location="tile 4"></a>
      </figcaption>
    </figure>
  </div>
</div>

```

The screenshot shows the Chrome DevTools Network tab with a list of requests. The request `63128_6157517138001_s-2.ts?videoId=6131375291001` is selected. The right-hand pane displays the details for this request.

General

- Request URL: `https://videosh.akamaized.net/pd/63128/282005/858/6157517138001/63128_6157517138001_s-2.ts?videoId=6131375291001`
- Request Method: GET
- Status Code: 200
- Remote Address: 23.53.240.34:443
- Referrer Policy: strict-origin-when-cross-origin

Response Headers

- accept-ranges: bytes
- access-control-allow-headers: X-Requested-With
- access-control-allow-methods: GET
- access-control-allow-origin: *
- alt-svc: h3-Q050=":443"; ma=93600, quic=":443"; ma=93600; v="46,43"
- content-length: 1198876
- content-type: video/mp2t
- date: Mon, 28 Feb 2022 17:38:50 GMT
- etag: "b98f1fdee2825d548bc80be266964e1:1589831341.590587"
- last-modified: Mon, 18 May 2020 19:49:01 GMT
- quic-version: Q050
- server: AkamaiNetStorage

Request Headers

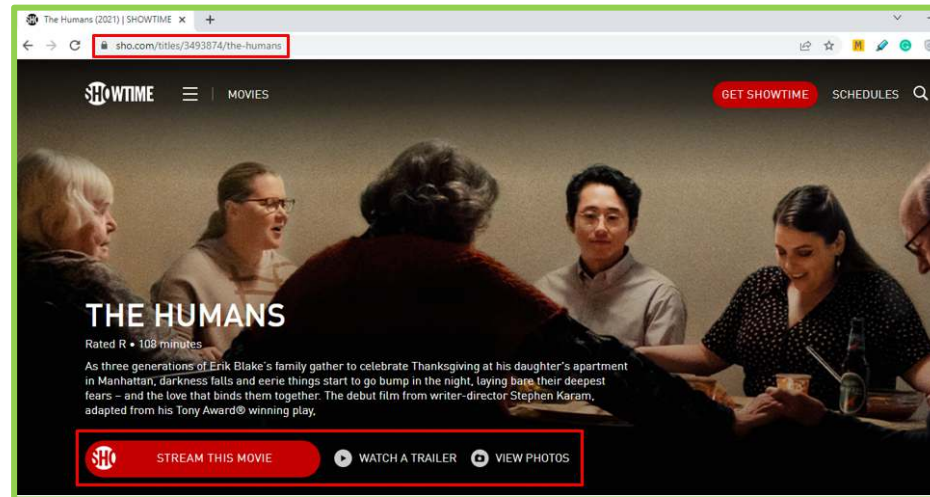
- authority: videosh.akamaized.net

At the bottom of the Network tab, a summary bar shows: 231 requests, 19.8 MB transferred, 26.0 MB resources, Finish: 30.6 min, and DOMContentLoaded.

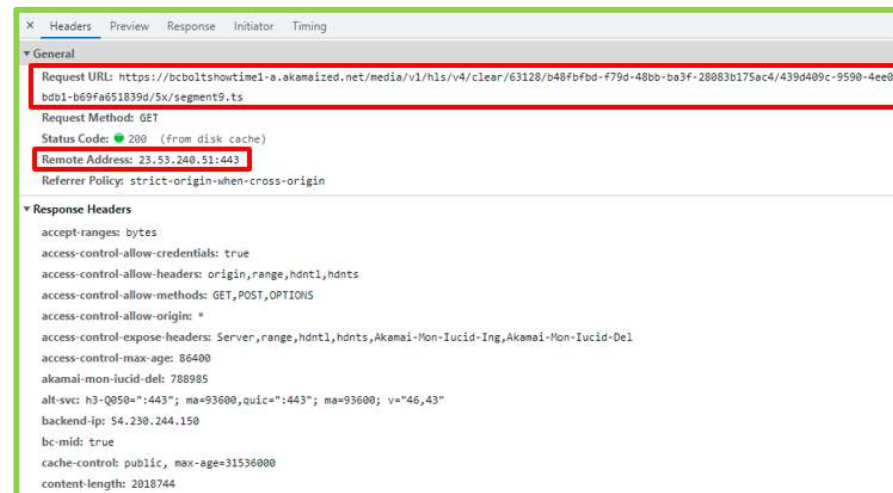
Source: Actual usage of Chrome DevTools to show the instructions stored on the main server communicate the identity of the various serving nodes (i.e., various channels or media content providers) to the client device.

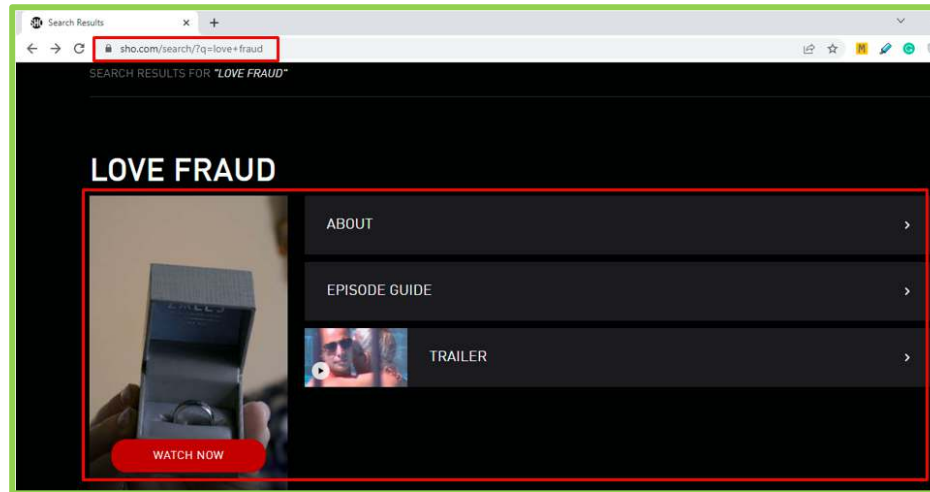
c) thereby enabling the client to request transmission of the specified content from the node server; and

As shown below, the user may request transmission i.e., watch the specified content (e.g., movies, series, sports, comedy, etc.) from various serving nodes (i.e., various channels or media content providers, etc.) that are providing the specified content.

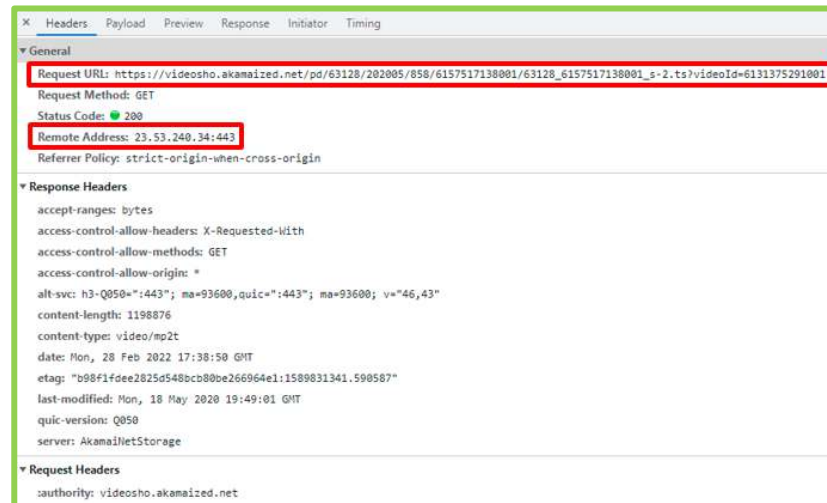


Source: <https://www.sho.com/titles/3493874/the-humans>





Source: <https://www.sho.com/search/?q=love+fraud>



Source: Actual usage of Chrome DevTools to show the instructions stored on the main server enables the user to watch the desired content from the different serving nodes (i.e., various channels or media content providers, etc.).

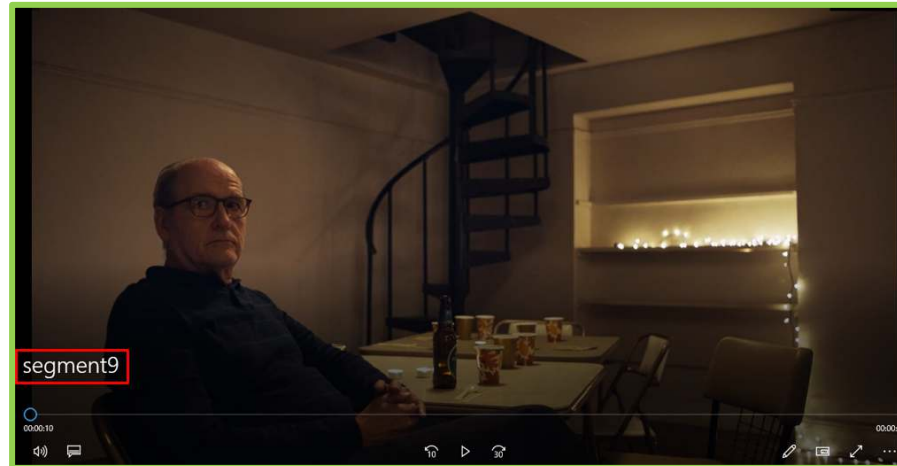
Time	Source	Destination	Protocol	Length	Info
957.38.856133	192.168.0.102	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=1289773 Ack=1289 Win=31744 Len=1460
953.38.856226	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=95429 Win=131328 Len=0
954.38.856332	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=98340 Win=131328 Len=0 SLE=104533 SRE=104713
955.38.856417	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=98693 Win=130816 Len=0 SLE=104533 SRE=104713
956.38.856492	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=104713 Win=131328 Len=0
957.38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=104713 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
958.38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=106173 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
959.38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=107633 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
960.38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=109093 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
961.38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=110553 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
962.38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=112013 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
963.38.876350	23.53.240.51	192.168.0.102	TCP	1514	[TCP Previous segment not captured] 443 → 51429 [ACK] Seq=119313 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
964.38.876350	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=113473 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
965.38.876350	23.53.240.51	192.168.0.102	TCP	487	443 → 51429 [PSH, ACK] Seq=128773 Ack=1289 Win=31744 Len=353 [TCP segment of a reassembled PDU]
966.38.876522	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=113473 Win=131328 Len=0 SLE=119313 SRE=120773
967.38.876727	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=114933 Win=131328 Len=0 SLE=119313 SRE=120773
968.38.876880	192.168.0.102	23.53.240.51	TCP	66	[TCP Dup ACK 96781] 51429 → 443 [ACK] Seq=1289 Ack=114933 Win=131328 Len=0 SLE=119313 SRE=121126
969.38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=114933 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
970.38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=116393 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
971.38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=117853 Ack=1289 Win=31744 Len=1460
972.38.879116	23.53.240.51	192.168.0.102	TLSv1.2	1514	[TCP Previous segment not captured] Ignored Unknown Record
973.38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=121126 Ack=1289 Win=31744 Len=1460
974.38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=122586 Ack=1289 Win=31744 Len=1460
975.38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=124846 Ack=1289 Win=31744 Len=1460
976.38.879276	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=121126 Win=131328 Len=0
977.38.879484	192.168.0.102	23.53.240.51	TCP	66	[TCP Dup ACK 97681] 51429 → 443 [ACK] Seq=1289 Ack=121126 Win=131328 Len=0 SLE=125506 SRE=126966
978.38.879652	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=126966 Win=131328 Len=0
979.38.880691	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=126966 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
980.38.880691	23.53.240.51	192.168.0.102	TCP	1514	[TCP Previous segment not captured] 443 → 51429 [ACK] Seq=132806 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
981.38.880691	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=128426 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]

Time	Source	Destination	Protocol	Length	Info
844.21.693343	54.192.171.21	192.168.0.102	TLSv1.2	444	Application Data
845.21.705117	192.168.0.102	192.168.0.1	DNS	82	Standard query 0x51f2 A videosho.akamaized.net
846.21.721100	192.168.0.102	54.192.171.24	TLSv1.2	174	Application Data
847.21.721297	192.168.0.102	54.192.171.24	TLSv1.2	93	Application Data
848.21.737350	192.168.0.102	54.192.171.21	TCP	54	53344 → 443 [ACK] Seq=1438 Ack=7257 Win=131072 Len=0
849.21.756006	192.168.0.1	192.168.0.102	DNS	143	Standard query response 0x51f2 A videosho.akamaized.net CNAME a1814.d.akamai.net A 23.53.240.34 A 23.53.240.2
850.21.758262	192.168.0.102	23.53.240.34	QUIC	1292	Client Hello
851.21.758783	192.168.0.102	23.53.240.34	QUIC	494	0-RTT, DCID=9c7d7b4ae67620b4
852.21.767624	54.192.171.24	192.168.0.102	TCP	54	443 → 53167 [ACK] Seq=1 Ack=121 Win=137 Len=0
853.21.767624	54.192.171.24	192.168.0.102	TLSv1.2	93	Application Data
854.21.768717	54.192.171.24	192.168.0.102	TCP	54	443 → 53167 [ACK] Seq=1 Ack=160 Win=137 Len=0
855.21.768752	192.168.0.102	54.192.171.24	TCP	54	53167 → 443 [ACK] Seq=160 Ack=40 Win=514 Len=0
856.21.779825	54.192.171.24	192.168.0.102	TLSv1.2	729	Application Data
857.21.779886	192.168.0.102	54.192.171.24	TCP	54	53167 → 443 [ACK] Seq=160 Ack=715 Win=511 Len=0
858.21.787719	192.168.0.1	192.168.0.102	DNS	143	Standard query response 0x51f2 A videosho.akamaized.net CNAME a1814.d.akamai.net A 23.53.240.24 A 23.53.240.3
859.21.804174	23.53.240.34	192.168.0.102	QUIC	84	Initial, SCID=9c7d7b4ae67620b4, PKN: 1
860.21.819133	23.53.240.34	192.168.0.102	QUIC	1292	0-RTT, SCID=9c7d7b4ae67620b4
861.21.819669	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
862.21.845379	23.53.240.34	192.168.0.102	QUIC	67	Protected Payload (KP0)
863.22.052746	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
864.22.058753	34.203.93.212	192.168.0.102	TCP	66	[TCP Retransmission] 443 → 53346 [SYN, ACK] Seq=0 Ack=1 Win=26883 Len=0 MSS=1460 SACK_PERM=1 WS=256
865.22.058792	192.168.0.102	34.203.93.212	TCP	54	[TCP Dup ACK 29584] 53346 → 443 [ACK] Seq=569 Ack=1341555768 Win=64895 Len=0
866.22.094142	23.53.240.34	192.168.0.102	QUIC	67	Protected Payload (KP0)
867.22.184218	192.168.0.102	34.203.93.212	TLSv1.2	698	Application Data
868.22.184359	192.168.0.102	34.203.93.212	TLSv1.2	1380	Application Data
869.22.299838	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
870.22.375668	23.53.240.34	192.168.0.102	QUIC	67	Protected Payload (KP0)
871.22.587131	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
872.22.588142	34.203.93.212	192.168.0.102	TCP	54	443 → 53349 [ACK] Seq=1686 Ack=11220 Win=58112 Len=0
873.22.588142	34.203.93.212	192.168.0.102	TLSv1.2	439	Application Data

Source: Actual usage of Wireshark (an open-source packet analyzer) shows the movement of packets between the node server in two different examples (e.g., 1. IP Address - 23.53.240.51, and 2. IP Address - 23.53.240.34) and the client device (e.g., Analyst device - IP Address 192.168.0.102). For example, the above snapshots show the client (e.g., Analyst device - IP Address 192.168.0.102) is requesting a specified content in both examples (e.g., 1. IP Address - 23.53.240.51, and 2. IP Address - 23.53.240.34) as the packet is transmitting from the client device to the node server.

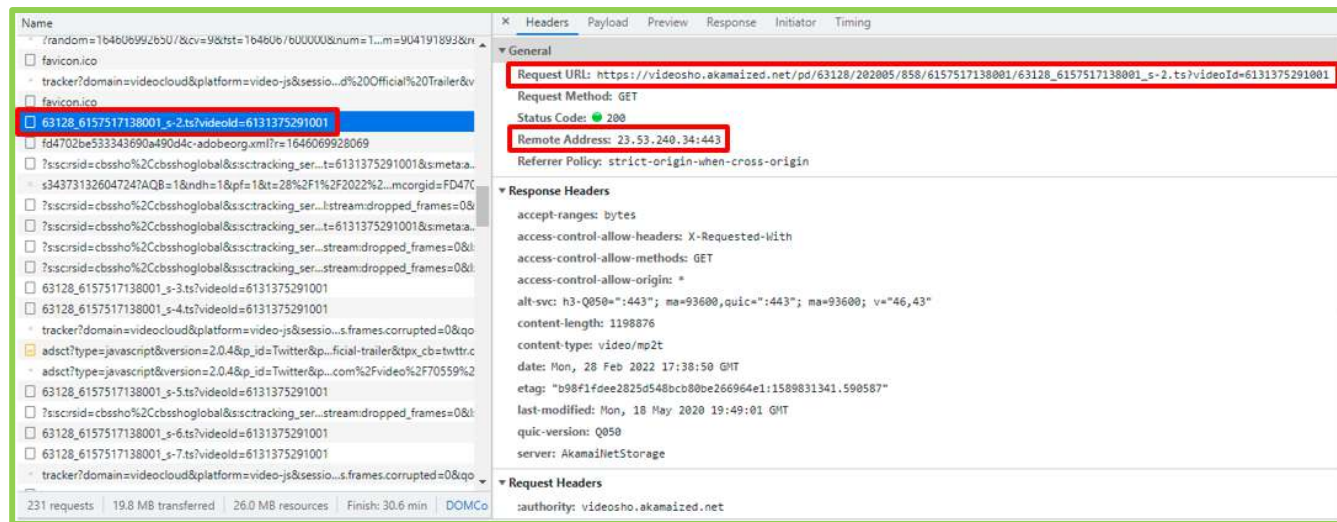
d)instructions for ascertaining that the node server transmitted the specified content to the client,

As shown below, the Showtime at the request of the user, then ascertains that the specified content is being transmitted to the user from the requested node server.



Name	Headers	Preview	Response	Initiator	Timing
<ul style="list-style-type: none"> tracker?domain=videocloud&platform=video-js&sessio...s.frames.com segment7.ts ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ segment8.ts segment8.ts segment9.ts tracker?domain=videocloud&platform=video-js&sessio...s.frames.com segment9.ts ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ segment10.ts tracker?domain=videocloud&platform=video-js&sessio...s.frames.com segment10.ts ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ s34615326264847AQ8=1&ndh=1&pf=1&t=28%2F1%2F2022%20...mc ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ ?s:csid=cbssho%2Ccbsshoglobal&s:ctracking_ser...stream:dropped_ 	<p>General</p> <p>Request URL: https://bcboltshowtime1-a.akamaiized.net/media/v1/hls/v4/clear/63128/b48fbfd-f79d-48bb-ba3f-28083b175ec4/439d409bdb1-b69fa651839d/5x/segment9.ts</p> <p>Request Method: GET</p> <p>Status Code: 200 (from disk cache)</p> <p>Remote Address: 23.53.240.51:443</p> <p>Referrer Policy: strict-origin-when-cross-origin</p> <p>Response Headers</p> <p>accept-ranges: bytes</p> <p>access-control-allow-credentials: true</p> <p>access-control-allow-headers: origin,range,hdnt1,hdnts</p> <p>access-control-allow-methods: GET,POST,OPTIONS</p> <p>access-control-allow-origin: *</p> <p>access-control-expose-headers: Server,range,hdnt1,hdnts,Akamai-Mon-Iucid-Ing,Akamai-Mon-Iucid-Del</p> <p>access-control-max-age: 86400</p> <p>akamai-mon-iucid-del: 788985</p> <p>alt-svc: h3-Q050=":443"; ma=93600,quic=":443"; ma=93600; v="46,43"</p> <p>backend-ip: 54.230.244.150</p> <p>bc-mid: true</p> <p>cache-control: public, max-age=31536000</p> <p>content-length: 2018744</p>				

189 requests | 29.2 kB transferred | 32.6 MB resources | Finish: 11.4 min



Source: Actual usage of Chrome DevTools to show the instructions stored on the main server ascertains that the specified content is being transmitted to the user from the requested node server.

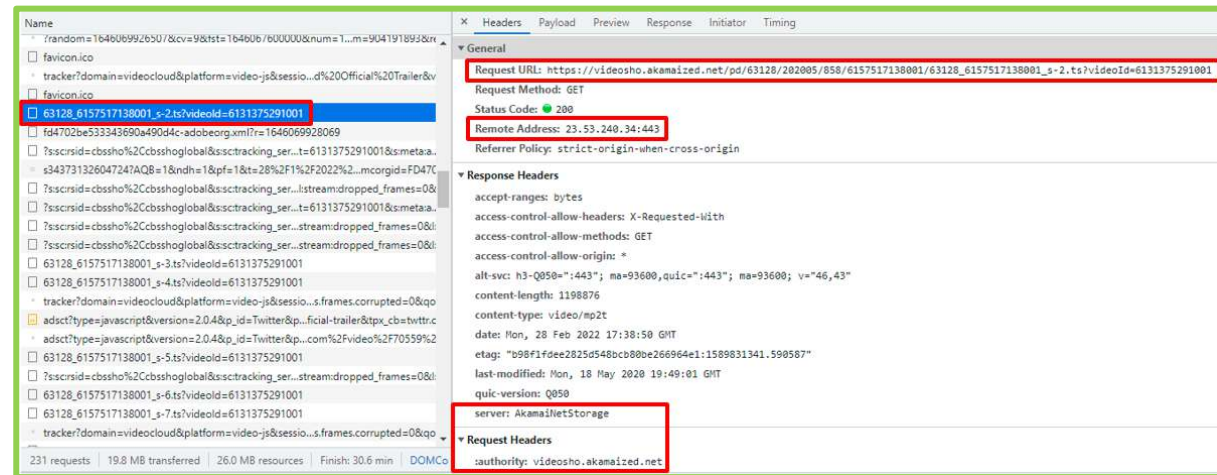
No.	Time	Source	Destination	Protocol	Length	Info
952	38.856133	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=105073 Ack=1289 Win=31744 Len=1460
953	38.856226	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=95420 Win=131328 Len=0
954	38.856332	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=98340 Win=131328 Len=0 SLE=104533 SRE=104713
955	38.856417	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=98693 Win=130816 Len=0 SLE=104533 SRE=104713
956	38.856492	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=104713 Win=131328 Len=0
957	38.876350	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=104713 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
958	38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=106173 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
959	38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=107633 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
960	38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=109093 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
961	38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=110553 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
962	38.876350	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=112013 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
963	38.876350	23.53.240.51	192.168.0.102	TCP	1514	[TCP Previous segment not captured] 443 → 51429 [ACK] Seq=119313 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
964	38.876350	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=119723 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
965	38.876350	23.53.240.51	192.168.0.102	TCP	407	443 → 51429 [PSH, ACK] Seq=120773 Ack=1289 Win=31744 Len=353 [TCP segment of a reassembled PDU]
966	38.876522	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=113473 Win=131328 Len=0 SLE=119313 SRE=120773
967	38.876727	192.168.0.102	23.53.240.51	TCP	66	51429 → 443 [ACK] Seq=1289 Ack=114933 Win=131328 Len=0 SLE=119313 SRE=120773
968	38.876880	192.168.0.102	23.53.240.51	TCP	66	[TCP Dup ACK 967#1] 51429 → 443 [ACK] Seq=1289 Ack=114933 Win=131328 Len=0 SLE=119313 SRE=121126
969	38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=114933 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
970	38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=114393 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
971	38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=113853 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
972	38.879116	23.53.240.51	192.168.0.102	TLSv1.2	1514	[TCP Previous segment not captured], Ignored Unknown Record
973	38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=121126 Ack=1289 Win=31744 Len=1460
974	38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=122586 Ack=1289 Win=31744 Len=1460
975	38.879116	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=124046 Ack=1289 Win=31744 Len=1460
976	38.879276	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=121126 Win=131328 Len=0
977	38.879552	192.168.0.102	23.53.240.51	TCP	66	[TCP Dup ACK 976#1] 51429 → 443 [ACK] Seq=1289 Ack=125906 Win=131328 Len=0 SLE=125906 SRE=120966
978	38.879552	192.168.0.102	23.53.240.51	TCP	54	51429 → 443 [ACK] Seq=1289 Ack=126966 Win=131328 Len=0
979	38.880691	23.53.240.51	192.168.0.102	TCP	1514	443 → 51429 [ACK] Seq=126966 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
980	38.880691	23.53.240.51	192.168.0.102	TCP	1514	[TCP Previous segment not captured] 443 → 51429 [ACK] Seq=132806 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]
981	38.880691	23.53.240.51	192.168.0.102	TCP	1514	[TCP Out-Of-Order] 443 → 51429 [ACK] Seq=128426 Ack=1289 Win=31744 Len=1460 [TCP segment of a reassembled PDU]

No.	Time	Source	Destination	Protocol	Length	Info
844	21.693143	54.192.171.21	192.168.0.102	TLSv1.2	444	Application Data
845	21.705117	192.168.0.102	192.168.0.1	DNS	82	Standard query 0x51f2 A videosho.akamaized.net
846	21.721100	192.168.0.102	54.192.171.24	TLSv1.2	174	Application Data
847	21.721297	192.168.0.102	54.192.171.24	TLSv1.2	93	Application Data
848	21.737350	192.168.0.102	54.192.171.21	TCP	54	53344 → 443 [ACK] Seq=1438 Ack=7257 Win=131872 Len=0
849	21.756006	192.168.0.1	192.168.0.102	DNS	143	Standard query response 0x51f2 A videosho.akamaized.net CHAHE a1814.d.akamai.net A 23.53.240.34 A 23.53.240.2
850	21.758262	192.168.0.102	23.53.240.34	QUIC	1292	Client Hello
851	21.758783	192.168.0.102	23.53.240.34	QUIC	494	0-RTT, DCID=9c7d7b4ae67620b4
852	21.767624	54.192.171.24	192.168.0.102	TCP	54	443 → 53167 [ACK] Seq=1 Ack=121 Win=137 Len=0
853	21.767624	54.192.171.24	192.168.0.102	TLSv1.2	93	Application Data
854	21.768717	54.192.171.24	192.168.0.102	TCP	54	443 → 53167 [ACK] Seq=1 Ack=160 Win=137 Len=0
855	21.768752	192.168.0.102	54.192.171.24	TCP	54	53167 → 443 [ACK] Seq=160 Ack=40 Win=514 Len=0
856	21.779825	54.192.171.24	192.168.0.102	TLSv1.2	729	Application Data
857	21.779886	192.168.0.102	54.192.171.24	TCP	54	53167 → 443 [ACK] Seq=160 Ack=715 Win=511 Len=0
858	21.787719	192.168.0.1	192.168.0.102	DNS	143	Standard query response 0x51f2 A videosho.akamaized.net CHAHE a1814.d.akamai.net A 23.53.240.24 A 23.53.240.3
859	21.804174	23.53.240.34	192.168.0.102	QUIC	84	Initial, SCID=9c7d7b4ae67620b4, PKN: 1
860	21.819133	23.53.240.34	192.168.0.102	QUIC	1292	0-RTT, SCID=9c7d7b4ae67620b4
861	21.819669	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
862	21.845379	23.53.240.34	192.168.0.102	QUIC	67	Protected Payload (KP0)
863	22.052746	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
864	22.055753	34.203.93.212	192.168.0.102	TCP	66	[TCP Retransmission] 443 → 53346 [SYN, ACK] Seq=0 Ack=1 Win=26883 Len=0 MSS=1460 SACK_PERM=1 WS=256
865	22.055792	192.168.0.102	34.203.93.212	TCP	54	[TCP Dup ACK 295#4] 53346 → 443 [ACK] Seq=569 Ack=1341555768 Win=64095 Len=0
866	22.094142	23.53.240.34	192.168.0.102	QUIC	67	Protected Payload (KP0)
867	22.184218	192.168.0.102	34.203.93.212	TLSv1.2	698	Application Data
868	22.184359	192.168.0.102	34.203.93.212	TLSv1.2	1380	Application Data
869	22.299838	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
870	22.375668	23.53.240.34	192.168.0.102	QUIC	67	Protected Payload (KP0)
871	22.587131	192.168.0.102	23.53.240.34	QUIC	75	Protected Payload (KP0), DCID=9c7d7b4ae67620b4
872	22.588142	34.203.93.212	192.168.0.102	TCP	54	443 → 53349 [ACK] Seq=1686 Ack=11220 Win=58112 Len=0
873	22.588142	34.203.93.212	192.168.0.102	TLSv1.2	439	Application Data

Source: Actual usage of Wireshark (an open-source packet analyzer) shows the movement of packets between the node server in two different examples (e.g., 1. IP Address - 23.53.240.51, and 2. IP Address - 23.53.240.34) and the client device (e.g., Analyst device - IP Address 192.168.0.102). For example, the above snapshots show the client (e.g., Analyst device - IP Address 192.168.0.102) is receiving a requested content from the requested node in both examples (e.g., 1. IP Address - 23.53.240.51, and 2. IP Address - 23.53.240.34) as the packet is transmitting from the node server to the client device.

e) wherein an owner of the node server is offered an incentive as compensation for transmission of the specified content to the client.

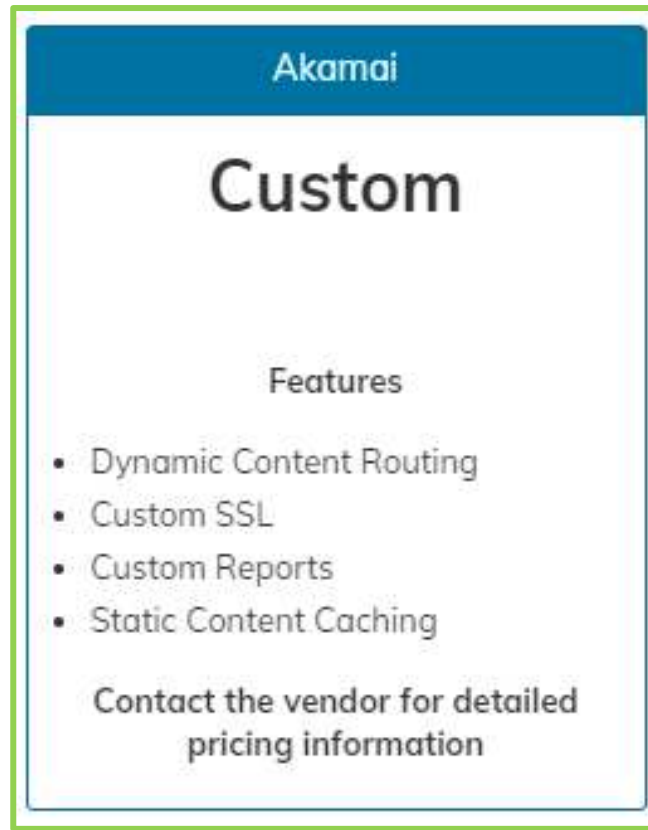
As shown below, Akamai offers a variety of plans at different pricing for its services. So, it must be Showtime offers an incentive as compensation to the owner of the node server (e.g., Akamai Technologies) for storage and transmission of the content to the user.



Source: Actual usage of Chrome DevTools to show the Showtime offers an incentive as compensation to the owner of the node server (e.g., Akamai Technologies) for storage and transmission of the content to the user.

Monthly Traffic	Akamai
6 TB plan	~ \$400
25 TB plan	~ \$1000
50 TB plan	~ \$1700
100 TB plan	~ \$2500
150 TB plan	~ \$3000

Source: <https://www.cdn77.com/compare-cdn-providers>

A screenshot of an Akamai pricing card. The card has a blue header with the Akamai logo. Below the header, the word "Custom" is displayed in a large, bold, black font. Underneath "Custom", the word "Features" is centered. Below "Features", there is a bulleted list of four features: "Dynamic Content Routing", "Custom SSL", "Custom Reports", and "Static Content Caching". At the bottom of the card, the text "Contact the vendor for detailed pricing information" is centered.

Akamai

Custom

Features

- Dynamic Content Routing
- Custom SSL
- Custom Reports
- Static Content Caching

Contact the vendor for detailed pricing information

Source: <https://www.saasworthy.com/product/akamai/pricing>